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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/674,289	10/30/2000	Tapani Vuorinen	LAIN-033	6903
20374	7590 03/16/2004		EXAMINER	
KUBOVCIK & KUBOVCIK SUITE 710 900 17TH STREET NW			ALVO, MARC	
			ART UNIT	PAPER NUMBER
WASHINGT	ON, DC 20006		1731	
			DATE MAILED: 03/16/2004	ļ

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	!/
_	09/674,289	VUORINEN, TAPANI	
Office Action Summary	Examiner	Art Unit	
	Steve Alvo	1731	
The MAILING DATE of this commu Period for Reply	nication appears on the cover sheet v	ith the correspondence address	
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMUN  - Extensions of time may be available under the provisior after SIX (6) MONTHS from the mailing date of this com  - If the period for reply specified above is less than thirty  - If NO period for reply is specified above, the maximum of  - Failure to reply within the set or extended period for rep Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	NICATION.  ns of 37 CFR 1.136(a). In no event, however, may a nuncication.  (30) days, a reply within the statutory minimum of the statutory period will apply and will expire SIX (6) MO by will, by statute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	1.
Status			
1) Responsive to communication(s) fi	led on 04 December 2003		
2a)⊠ This action is <b>FINAL</b> .	2b) ☐ This action is non-final.		
3) Since this application is in condition	n for allowance except for formal ma tice under <i>Ex part</i> e <i>Quayle</i> , 1935 C.	·	;
Disposition of Claims			
4)⊠ Claim(s) <u>1,5-7,10,12-20 and 22-28</u> 4a) Of the above claim(s) is/ 5)□ Claim(s) is/are allowed. 6)⊠ Claim(s) <u>1,5-7,10,12-20 and 22-28</u> 7)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restr	are withdrawn from consideration.		
Application Papers			
9)☐ The specification is objected to by t	he Examiner.		
10)☐ The drawing(s) filed on is/are	e: a)□ accepted or b)□ objected to	by the Examiner.	
Applicant may not request that any obj	ection to the drawing(s) be held in abeya	ince. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) includir 11) The oath or declaration is objected	ng the correction is required if the drawing to by the Examiner. Note the attache		i).
Priority under 35 U.S.C. § 119			
<ul><li>2. Certified copies of the priority</li><li>3. Copies of the certified copies</li></ul>	y documents have been received. y documents have been received in a s of the priority documents have been ional Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (3) Information Disclosure Statement(s) (PTO-1449 of Paper No(s)/Mail Date	(PTO-948) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) 	

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 5-7, 10, 12-14, 19-20 and 22-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over MIYAMOTO et al et al in view of ASHTON et al and RHA or the ADMITTED PRIOR ART (specification, page 1, lines 14-15) with or without HASSI et al.

MIYAMOTO et al et al teaches forming a fiber suspension, adding CMC having a D.S of 0.3 (column 4, line 37) and a degree of polymerization of 2000 (column 3, line 69) to modify the properties of the fibers and drying the fiber material, e.g. paper machine to make a paper. It would have been obvious to add the CMC of MIYAMOTO et al et al could be under alkaline conditions as ASHTON et al teaches that the pH is not important and can be 9.0 (column 3, lines 30-31). RHA et al teaches adding sizing agents, e.g. CMC, to paper pulp suspensions and teaches that the sizing agent can be added during the beating stage. It would have been obvious to the artisan to add the sizing agent of BATES et al during the beating stage as taught by RHA et al. Or the ADMITTED PRIOR ART teaches that it is known to add polymers prior to the paper machine. It would have been obvious to one of ordinary skill in the art that the CMC of BATES could have been added prior to the paper machine as the addition of additive to the slurry prior to paper formation is well known in the art as evidenced by the ADMITTED PRIOR ART. It would have been obvious to the routineer that the sizing agent also acts to bond the fibers as MIYAMOTO et al et al teaches that the modifying agents increase the mechanical properties, column 3, lines 1-4 and ASHTON teaches that it produces high strength papers

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(column 1, lines 15-20). If this is not obvious then HASSI teaches that sizing agents such as CMC also act as bonding agents.

Claims 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over MIYAMOTO et al et al in view of ASHTON et al and RHA or the ADMITTED PRIOR ART (specification, page 1, lines 14-15) as applied to claim 1 above, and further in view of HASSI.

HASSI teaches that sizing agents such as CMC could be added during an alkaline peroxide bleach stage. It would have been obvious to add the modifying agents (sizing agents) of BATES during a peroxide bleach stage as such is taught by HASSI.

Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over MIYAMOTO et al et al in view of ASHTON et al with or without HASSI as applied to claim 1 above, and further in view of RHA et al.

RHA et al teaches adding sizing agents, e.g. CMC, to paper pulp suspensions and teaches that the sizing agent can be added during the beating stage. It would have been obvious to the artisan to add the sizing agent of BATES et al during the beating stage as taught by RHA et al.

Applicant's argiments ore moot due to the new rejections based on MIYAMOTO et al et al in view of ASHTON et al.

Applicant's amendment, drawn to printed paper or packaging material, necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

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MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steve Alvo whose telephone number is 571-272-1185. The examiner can normally be reached on 6:00 AM to 2:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner

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